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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,391	08/18/2003	Heinrich Heilbronner	Y3-6	3625
39648	7590	09/27/2006		
ANDREW F. YOUNG, LACKENBAUGH SIEGEL, LLP ONE CHASE ROAD SCARSDALE, NY 10583			EXAMINER CHU, CHRIS C	
			ART UNIT 2815	PAPER NUMBER

DATE MAILED: 09/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/643,391

Applicant(s)

HEILBRONNER ET AL.

Examiner

Chris C. Chu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 August 2006.
2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 29 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☐ Claim(s) _____ is/are rejected.
7) ☒ Claim(s) 1 - 29 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 8/18/03.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

1. Claims 1 – 29 are in condition for allowance. The restriction requirement between species, as set forth in the Office action mailed on June 15, 2006, has been reconsidered in view of the allowability of claims to the elected invention pursuant to MPEP § 821.04(a). **The restriction requirement is hereby withdrawn as to any claim that requires all the limitations of an allowable claim.** Claims 3 and 22, directed to Species II withdrawn from further consideration because a surface element avoids close contact with at least one of a ribbon conductor and at least one power semiconductor component require all the limitations of an allowable generic linking claim as required by 37 CFR 1.141.

In view of the above noted withdrawal of the restriction requirement, applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Ex Parte Quayle

2. This application is in condition for allowance except for the following formal matters:

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- (A) In claim 10, line 4, “said at least one ribbon connector” should be --said at least two mutually insulated ribbon connectors-- because the limitation should be consist with other claims.
- (B) In claim 12, line 4, “said at least one base element” should be --at least one base element-- because the limitation “said at least one base element” lacks antecedent basis.
- (C) In claim 27, lines 2 and 3, “DC port conductor” should be --DC port conductors-- because the limitation should be consist with other claims.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

REASONS FOR ALLOWANCE

3. The following is an examiner’s statement of reasons for allowance:

The prior art of record does not teach or suggest, either singularly or in combination, at least DC port conductors being arranged proximate to each other and at least one of ribbon conductors; each the DC port conductor including at least a first substantial length portion in parallel to a second respective substantial length portion on the second DC port conductor; an AC port conductor having at least one portion proximate at least one of a substrate and the at least one of ribbon conductors; the AC port conductor having at least one portion proximate at least one of the substrate surface and the ribbon connectors; and at least one surface element

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extending at least at a first angle from one of the AC port conductor and the DC port conductor as set forth in claims 1, 15, 18 and 21. Shirakawa et al. (U. S. Pat. No. 6,525,950) teaches at least DC port conductors being arranged proximate to each other and at least one of ribbon conductors; each the DC port conductor including at least a first substantial length portion in parallel to a second respective substantial length portion on the second DC port conductor; an AC port conductor. However, Shirakawa et al. does not teach the AC port conductor having at least one portion proximate at least one of the substrate surface and the ribbon connectors; and at least one surface element extending at least at a first angle from one of the AC port conductor and the DC port conductor as set forth in claims 1, 15, 18 and 21.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Maeno, Koike et al., Sofue et al., Yamada et al., Mori et al., Mourick, Parkhill et al., Maly et al., Schulze et al., Ahmed et al., Buckle et al. and Porst et al. disclose a power semiconductor device.

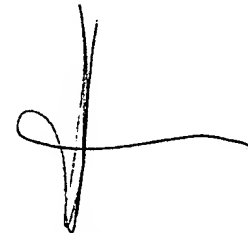
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris C. Chu whose telephone number is 571-272-1724. The examiner can normally be reached on 11:30 - 8:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Chris C. Chu
Examiner
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A handwritten signature in black ink, appearing to read 'K. Parker', with a large loop and a horizontal stroke extending to the right.

KENNETH PARKER
SUPERVISORY PATENT EXAMINER

c.c.
Tuesday, September 19, 2006